

2 Williams Street
Chelsea, MA 02150
(617) 889 - 6515

✓ fill



INSPECTORATE

QUALITY CERTIFICATE

Vessel	"Penn 90"	Port	Boston, MA	Report	052203
Customer	Sprague Energy	Date	May 14, 2003	Reference	
Operation	Analysis	Terminal	Sprague Quincy	Sample #	40357

Name of material being tested
Description of sample source
Samples Drawn by (company)
Samples Tested by (company)

6 Fuel Oil

Shore Tank # 11 After Discharge
Inspectorate America Corp.
Inspectorate America Corp.

Tests being Performed	Test method	Sample Results
Gravity API @ 60 F	D - 287	12.1
Flash Point, PMCC, F	D - 93	>230
Viscosity cSt @ 122 F	D - 445	222.3
Viscosity SFS @ 122 F	D - 1261	105.20
Pour Point, F	D - 97	43
Sulfur, wt %	D - 4294	0.458
Water & Sediment, vol %	D - 1796	0.2
Gross Heat of Combustion, BTU / lb	D - 240	18,509
Gross Heat of Combustion, BTU / gal	D - 240	151,890
Nitrogen, wt %	D - 3228	0.35
Ash wt %	D - 482	0.11
Ashphaltenes, wt %	IP - 143	0.89
Conradson Carbon Residue, wt %	D - 189	8.9
Vanadium, ppm	D - 5863	15
Sodium, ppm	D - 5863	20
THE ATTACHED CERTIFICATE REPRESENTS THE PRODUCT INSPECTED BY THE INSPECTION SERVICE ON THE DATE STATED ON THE CERTIFICATE IN THE TANK STATED BY THE INSPECTION SERVICE. SPRAGUE REPRESENTS THAT ANY PRODUCT IT MAY SELL AT THE RACK MAY DIFFER FROM SUCH INSPECTION CERTIFICATE BUT SUCH PRODUCT SHALL MEET THE SPECIFICATIONS AS MAY BE REQUIRED BY ANY APPLICABLE REGULATIONS WITHIN THE STATE THAT THE PRODUCT IS SOLD.		

** Annotates Analysis Contracted Out